CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: NDA 20-538/S-006

CORRESPONDENCE

MENOREST MANUFACTURING, INC. Via Federal Express ORIGINAL June 26, 1998 Lisa Rarick, M.D. Director Division of Reproductive and Urologic Drug Products (HFD) Office of Drug Evaluation II Center for Drug Evaluation and Research Document Control Room #17B-20 5600 Fishers Lane **REVIEWS COMPLETED** Rockville, MD 20857 **CSO ACTION:** Re: NDA 20-538/S006 Amendment LETTER N.A.I. MEMO **Estradiol Transdermal System** 0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day**CSO INITIALS** Dear Dr. Rarick: Reference is made to the February 19, 1998 letter issued by your office which provided a review of the August 18, 1997 supplemental application (S006) to NDA 20-538. Menorest Manufacturing, Inc. hereby amends the subject SNDA to respond to all of the comments and requests for information. For each review, each comment/request is restated and followed by our response in **bold** type. We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j. Your prompt review of this information is appreciated. Sincerely yours, NOVEN PHARMACEUTICALS, INC. David Lucking Senior Director, Medical and Regulatory Affairs 11960 S.W. 144th Street, Miami, Florida 33186 Phone (305) 253-5099 Fax (305) 251-1887

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Via Facimile Transmission			1 12
(hard copy via Federal Expre	ss)	March 19, 1998	No started
John Markow			Jean Paris
Food and Drug Administration			1/20 IcV
Division of Reproductive and	Urologic Drug Products	(HED-580)	3/31/8/
Office of Drug Evaluation II		(11115-380)	CENTER
Center for Drug Evaluation a	nd Research		
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5600 Fishers Lane			2 0 8
Rockville, MD 20857	SUPPL NEW COR	RESD S	\$60 1998
Re: NDA 20-538/S-006	506-006 SNO		
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			11/15 A
Dear Mr. Markow:		127 288	9/2/98
		10-6-7	
As per your telephone request 1012 showing the patch adhesi	of March 19, 1998 attach	ed are the Case Panort Fa-	
are paten adries	on assessinging i have men	uded a copy of the randomics	is from study
for the reviewer's convenience		aced a copy of the randomiza	uon schedule /
		REVIEWS COMPLETE	
		CSO ACTION:	
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	Sincerely yours,		
		CSO INITIALS AYN	ID XATE
	MENOREST MA	ANUFACTURING, INC.	
	David lu		
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	David Lucking		
	Senior Director, Me	edical and Regulatory Affairs	10/22/98
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SUPPL NEW CORRESP

REVIEWS COMPLETED

JLETTER JN.A.L.

CSO ACTION

5-006

Via Federal Express

March 3, 1998

Lisa D. Rarick, M.D.
Director
Division of Reproductive and Urologic Drug Products
Office of Drug Evaluation II
Center for Drug Evaluation and Research
Food and Drug Administration
Document Control Room 17B-20
5600 Fishers Lane
Rockville, MD 20857

Re: NDA 20-538/S-006

Dear Dr. Rarick:

Menorest Manufacturing, Inc. hereby notifies the Food and Drug Administration of its intent to amend the above referenced application in accordance with 21 CFR 314.120(a)(1).

REC'D
MAR - 4 1998
HFD-580
RESERVE

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

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Enclosure

Via Federal Express

No Reptember 5, 1997

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SUPPL NEW CORRESP

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD-580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Subject:

NDA 20-538

Estradiol Transdermal System

0.0375, 0.05, 0.075, and 0.10 mg/day

[S-006]

Dear Dr. Rarick:

Menorest Manufacturing Inc., hereby amends the above referenced supplement with the following information:

- 1. The original formulation referenced in NDA 20-538 is not marketed in the United States.
- 2. The revised formulation will replace the original formulation referenced in NDA 20-538.
- 3. There is no trademark for the original product covered by NDA 20-538. EstradotTM (estradiol transdermal system) is the first trademark proposed for the product covered by this application.

REVIEWS COMPLETED

CSO ACTION:
LETTER N.A.I. MEMO
2/195
CSO INITIALS DATE

Sincerely yours,

NOVEN PHARMACEUTICALS, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

Attachment DL:cf

ORIGINAL MENOREST MANUFACTURING, INC

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SUPPL NEW CORRESP

Via Facsimile Transmission (Hard copy via Federal Express)

January 20, 1999

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Re:

NDA 20-538 - Supplement 006

Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day

SUPPLEMENT - EXPEDITED REVIEW REQUESTED

Dear Dr. Rarick:

Menorest Manufacturing, Inc. hereby confirms that it will use the tradename Vivelle®-Dot™ as approved on January 13, 1999 by the Labeling and Nomenclature Committee (confirmed in a conversation between Jennifer Mercier and David Lucking on January 18, 1999) for the product in the above referenced NDA.

In addition, Menorest Manufacturing, Inc. commits to manufacture product with printed backing two (2) months after the launch of the product described in the above referenced NDA. The backing will be printed with the tradename and the dosage strength as provided in our June 26, 1998 submission.

We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

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REVIEWS COMPLETED

CSO ACTION

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MENOREST MANUFACTURING, INC

Via Federal Express

January 11, 1999

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane Rockville, MD 20857

Re:

NDA 20-538 - Supplement 006 **Estradiol Transdermal System**

0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day

SUPPL NEW CORRESP

Dear Dr. Rarick:

Menorest Manufacturing, Inc. hereby submits the attached market research conducted by to support the approval of the trademark Vivelle®-MicroTM for the product referenced in the above NDA.

The following information is offered to address the Committee's statement that "micro" has long been associated with reduced dosing in oral contraceptives and for micronized drug substances.

The market research clearly demonstrates that the respondents associated micro with reduced size and not with reduced dosing in unaided testing. Fifty-seven (57%) associated the modifier "micro" with small. In addition, in order to emphasize the smaller size of Vivelle-Micro, the pouch and box will contain the words "New! Smaller Patch, Same Strength" for a period of 3 months after launch. (Refer to Attachment 1).

The second concern of the Committee was that "micro" has been associated with micronized drug substances. A product on the market, Micro-K, (A.H. Robins Company) is an oral dosage form containing micro encapsulated potassium chloride not micronized potassium In this case, micro is not associated with micronization but with micro encapsulation. In contrast, Vivelle®-Micro™ contains micronized estradiol. Therefore, even if the term "micro" was associated with micronized drug substances, this association would not be inconsistent with the micronized estradiol contained in Vivelle®-MicroTM.

Therefore, Menorest Manufacturing, Inc. requests the Labeling and Nomenclature Committee consider the information presented above and in the market research (attached) when reconsidering approval of the trademark Vivelle®-MicroTM. Thank you for your consideration.

> 11960 S.W. 144h Street, Miami, Florida 33186 (305) 253-5099 🛦 (305) 251-1887

NDA 20-538 Estradiol Transdermal System 0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day January 11, 1999

Page 2

We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

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MENOREST MANUFACTURING, INC.

SUPPL NEW CORRESP

Via Facsimile Transmission

(hard copy via Federal Express)

January 8, 1999

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Re:

NDA 20-538 (Supplement 006)

Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, 0.10 mg per day

Dear Dr. Rarick:

Menorest Manufacturing, Inc. hereby submits the following trademarks for the product referenced in NDA 20-538 Supplement 006 in the preferential order of consideration.

- 1. Vivelle-Dot
- Vivelle-Ease

NDA 20-538 is identical in all respects to NDA 20-323 previously submitted by Noven Pharmaceuticals, Inc. and now owned by Novartis Pharmaceuticals Corporation. The product described in NDA 20-323 is marketed under the trademark **VIVELLE®**. After approval, NDA 20-538 will be transferred to Novartis Pharmaceuticals Corporation.

We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j.

Please contact me if you have any questions.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regula ory Affairs

REVIEWS COMPLETED

CSO ACTION:

LETTER N.A.I.

11960 S.W 144th Street & Minni, Flands 33 Phone (30) 253 N 1992 SA Fay (305) 251 phs

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JAN 1 2 1999

HFD-580

Via Facsimile Transmission

(hard copy via Federal Express)

January 7, 1999

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Re: Request for Meeting

NDA 20-538/S006 Amendment Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, 0.10 mg per day

Dear Dr. Rarick:

Menorest Manufacturing, Inc. hereby requests a meeting with the Division of Reproductive and Urologic Drug Products to present research findings demonstrating that the trademarks Vivelle® and Vivelle®-Micro™ have a low potential of confusion among physicians, pharmacists, and post-menopausal women. The research was conducted by whose market research is designed to minimize error potential and assist in guiding the selection process of final tests names in accordance with "Patient Safety" Labeling and Nomenclature guidelines.

Those in attendance at the meeting will be myself and Mr. James L. Dettore, President, and

Thank you for your consideration.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking Senior Director, Medical and Regulatory Affairs SUPPL NEW CORRESP

November 1,1,1/99

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11960 S.W. 144th Street A Miami, Florida 33186 Phone (305) 253-5099 A Fax (305) 251-1887

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MENOREST MANUFACTURING, INC. ORIGINAL

Via Federal Express

January 6, 1999

NDA SUPP AMEND

Lisa Rarick, M.D. Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Re: NDA 20-538/S006

Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day

Dear Dr. Rarick:

Enclosed are the labeling changes requested by Jennifer Mercier on January 6, 1999.

We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

REVIEWS COMPLETED **CSO ACTION:** LETTER N.A.I. CSO INITIALS

Via Federal Express

ORIGINAL

NEW CORRESP

December 8, 1998

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Re: NDA 20-538

Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day

Dear Dr. Rarick:

Menorest Manufacturing, Inc. hereby submits the trademark VIVELLE®-MICROTM for the product referenced in NDA 20-538 Supplement 006.

NDA 20-538 is identical in all respects to NDA 20-323 previously submitted by Noven Pharmaceuticals, Inc. and now owned by Novartis Pharmaceuticals Corporation. The product described in NDA 20-323 is marketed under the trademark **VIVELLE**[®]. After approval, NDA 20-538 will be transferred to Novartis Pharmaceuticals, Inc.

In addition, Menorest Manufacturing, Inc. requests a meeting with the Labeling and Nomenclature Committee to present research findings demonstrating that the trademarks VIVELLE® and VIVELLE®-MICRO™ have a low potential of confusion among physicians, pharmacists, and post-menopausal women. The research is being conducted by whose market research is designed to minimize error potential and assist in guiding the selection process of final test names in accordance with "Patent Safety" Labeling and Nomenclature guidelines.

Those in attendance at the meeting will be myself and Mr. James L. Dettore, President and C.E.O.

Thank you for your consideration.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

REVIEWS COMPLETED	
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LETTER N.A.I. MEMO	N
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September 10, 1998

John Markow
Project Manager/CSO
Division of Reproductive and Urologic Drug Products (HFD - 580)
Office of Drug Evaluation II
Center for Drug Evaluation and Research
5600 Fishers Lane
Rockville, MD 20857

Re: FDA Request for Information

NDA 20-538/S006 Amendment Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, 0.10 mg per day

Dear Mr. Markow:

Pursuant to the telephone conversation between you, Dr. Mitra (Reviewing Chemist), and Menorest Manufacturing, Inc., the following information is provided to clarify the sample preparation and results reporting for the test procedure found on page 47 of the June 26, 1998 amendment for S006:

Regarding test procedure for each finished product sample, two sample preparations are prepared. For each preparation, 5 units are placed in a single screw cap bottle and the units are then extracted according to the procedure. A single assay value is generated for each of the two preparations. The average of the two values is reported on the stability summary reports.

We consider this information proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 2 USC, Section 331j.

As discussed, will prepare a formal submission of this information. If you have any further questions or comments, you may contact David Lucking, Senior Director, Medical and Regulatory Affairs, at (305) 253-5099 extension 109.

Sincerely yours,

MENOREST, MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

October 28, 1998

Via Federal Express

Lisa Rarick, M.D.

Director

Division of Reproductive and Urologic Drug Products (HFD - 580)

Office of Drug Evaluation II

Center for Drug Evaluation and Research

Document Control Room #17B-20

5600 Fishers Lane

Rockville, MD 20857

Re: NDA 20-538/S006

Estradiol Transdermal System

0.0375 mg, 0.05 mg, 0.075 mg, and 0.10 mg per day

Dear Dr. Rarick:

Reference is made to the October 16, 1998 letter issued by your office which provided a review of the August 18, 1997 supplemental application (S006) to NDA 20-538 as well as the subsequent submissions dated March 19, June 26, and September 15, 1998. Menorest Manufacturing, Inc. hereby amends the subject SNDA to respond to all of the comments and requests for information. For each review, each comment/request is restated and followed by

We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j.

Your prompt review of this information is appreciated.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs

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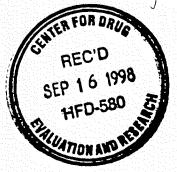
September 15, 1998

NDA SUPP AMEND SCF-004 BC ..

Lisa Rarick, M.D. Director Division of Reproductive and Urologic Drug Products (HFD - 580) Office of Drug Evaluation II Center for Drug Evaluation and Research Document Control Room #17B-20 5600 Fishers Lane Rockville, MD 20857

Re: FDA Request for Information NDA 20-538/S006 Amendment **Estradiol Transdermal System** 0.0375 mg, 0.05 mg, 0.075 mg, 0.10 mg per day

REVIEWS COMPLETED CSO ACTION: □LETTER □N.A.I. □MEMO CSO INITIALS



Dear Dr. Rarick:

Reference is made to the June 26, 1998 amendment to the supplemental application (S006) to NDA 20-538 which was filed on August 18,1998. Menorest Manufacturing, Inc. hereby amends the subject SNDA to provide additional information at the request of the division as a result of a telephone conversation held on September 10, 1998 between Menorest Manufacturing and Mr. Markow (Project Manager/CSO) and Dr. Mitra (FDA Reviewing

Pursuant to the telephone conversation, the following information is provided to clarify the sample preparation and results reporting for test procedure found on page 47 of the June 26, 1998 amendment for SNDA S006.

Regarding Noven test procedure STP 309, for each finished product sample, two sample preparations are prepared. For each preparation, 5 units are placed in a single screw cap bottle and the units are then extracted according to the procedure. A single assay value is generated for each of the two preparations. The average of the two values is reported on the stability summary reports.

We consider all of the information contained in the application proprietary and confidential. Please be advised that the confidentiality of all enclosed information is provided for under 18 USC, Section 1905 and/or 21 USC, Section 331j.

> 11960 S.W. 144th Street 🛕 Miami, Florida 33186 Phone (305) 253-5099 A Fax (305) 251-1887

FDA Request for Information NDA 20-538/S006 Amendment Estradiol Transdermal System 0.0375 mg, 0.05 mg, 0.075 mg, 0.10 mg per day September 15, 1998

Page 2

If you have any further questions or comments, you may contact David Lucking, Senior Director, Medical and Regulatory Affairs, at (305) 253-5099 extension 109.

Sincerely yours,

MENOREST MANUFACTURING, INC.

David Lucking

Senior Director, Medical and Regulatory Affairs